PROSYANIK, G. V. (Eng.)

"Obtaining Precision Steel Castings with the Use of Press-Formed Molds and Cores Made of Chemically Setting Compositions" and "Shell-Mold Casting of Precision Parts," Metody polucheniya otlivok povyshennoy tochnosti (Methods of Making High-Precision Castings), Moscow, Mashgiz, 1958. 140 p.

PURPOSE: This book is intended for engineers and technicians at plants and institutes, as well as in research and planning organizations in all branches of the machine-building industry.

S/123/59/000/008/036/043 A004/A002

Translation from: Referativnyy zhurnal, Mashinostroyeniye, 1959, No. 8, p. 198 # 30058

AUTHORS:

Danilevskaya, R. G., Prosyanik, G. V.

TITLE:

The CKT-P (SKT-R) Separating Compound

PERIODICAL: Tekhnol. avtomobilestroyeniya, 1958, No. 3, p. 27

TEXT: 3 SKT-R is a solution of SKT-caoutchouc (40 gr) in white spirit (1,000 cm³). Investigations showed that this compound, concerning technological properties, surpasses all separating compounds which have been used hitherto. Its heat resistance amounts to approximately 300°C. The compound is applied in a cold state to the model by a sprayer without noticeable gassing. After a single application of the compound, 20 - 40 shell castings can be taken from the model. The insignificant foundry scab can be removed with a metal brush. The SKT-R consumption per ton of casting amounts to 0.8-1 liter. The cost of one liter is 14.50 rubles. SKT-R is recommended for shell molding processes.

Translator's note: This is the full translation of the original Russian abstract.

Card 1/1

\$/123/59/000/006/018/025 A005/A001

Translation from: Referativnyy zhurnal, Mashinostroyeniye, 1959, No. 6, p. 219. # 21634

AUTHOR:

Prosyamik, G. V.

TITLE:

Obtaining Precise Steel Ingots in Squeezed Rods of Chemically

PERIODICAL: V sb.: Metody polucheniya otlivok povyshennoy tochnosti. Moscow,

Mashgiz, 1958, pp. 120-123

TEXT: The Moskovskiy avtozaved im. Likhacheva (Moscow Automobile Works imeni Likhachev) performs investigations for obtaining precision ingots in thinwalled molds - rods of chemically hardening mistures containing Gremyachevskiy sand and water glass. The rods are produced by machines-jolters of $\beta \phi$ -2 (VF-2) type. The molds built up of these rods and filled up with steel 45 at 1,550 °C, serve to produce crankshafts for the compressor of the 3NJ-150 (ZIL-150) truck. The cooled ingots are easily knocked out from the mold and have smooth surface. The allowance for mechanical processing of the ingots is 0.7-1 mm at the side. There are 2 figures.

V. I. M.

Translator's note: This is the full translation of the original Russian abstract. Card 1/1

ASSONOV, A.D., kand.tekhn.nauk; LAKEDEMONSKIY, A.V.; PROSYANIK, G.V.

Shell molding of gears. Avt.prom. no.1:28-30 Ja '59.

(MIRA 12:1)

1. Moskovskiy avtozavod imeni Likhacheva.

(Shell molding (Founding))

PROSYANTK, N.S.

TSIMBLER, M.Ye.; PROSYANIK, N.S.

Preparation and study of a tartrate copper complex. Ukr.khim.shur.
19 no.3:282-288 '53. (MLRA 7:4)

1. Kiyevskiy gidromeliorativnyy institut.
(Gopper organic compounds) (Tartrates)

TSIMBLER, M.Ye.; PROSYANIK, N.S.

Chemical characteristics of the reaction of the systems

Pb(0H)₂ - K₂C₄H₄O₆, and Cd(0H)₂ - NaHC₄H₄O₆ with an excess of hydroxy acid salt present in the solution. Urr.khim.zhur. 29 no.6:582-585 '63. (MIRA 16:9)

Ukrainskiy institut inzhenerov vodnogo khozyaystva.
 (Systems (Chemistry)) (Complex compounds) (Tataric acid)

SKOBETS, Ye.M., doktor khimicheskikh nauk, prof.; PROSYANIK, N.S. assistent

Polarographic analysis of soils. Nauch. trudy UASHN 10:251-257

[60.

(Soils-Analysis)

(Polarography)

GORENBEYN, Ye.Ya.; PROSYANIK, N.S.

Study of the interaction between potassium thiocyanate, ammonium thiocyanate, sodium iodide and water in acetone as the solvent, using the electric conductivity method.

Zhur. neorg. khim. 5 no. 12:2847-2848 D '60. (MRA 13:12)

(Potassium thiocyanate) (Ammonuim thiocyanate)

(Sodium iodine)

TSIMBLER, M.Ye.; DERENOVSKIY, V.I.; PROSYANIK, N.S.

On the article by M.Bobtel'skii "Principles of heterometry and its interpretation". Zhur.neorg.khim. 7 no.4:954 Ap '62.

(Complex compounds) (Bobtel'skii, M.)

(Complex compounds) (Bobtel'skii, M.)

Regulators of the molecular weight of polycaprolactam and action mechanism, Khim. volok. no.6:23-26 '64.

(Mink PRI).

1. Vsesoyuznyy nauchno-issledovater skiy institut ishunstvennego velokna.

- 1. ISAKHANYAN, N.T.; KCLCTILIN, YE.I.; KUMANIN, I.B.; GLCFINSIIY, N.F.; PROSYANKI, G.V.; FANTALOV, L.I.
- 2. USSR (600)
- 4. Sand, Foundry
- 7. Repeated use of core mixtures., Lit.proiz, No. 10, 1952.

9. Monthly List of Russian Accessions, Library of Congress, February 1953. Unclassified.

107-57-4-32/54

AUTHOR: Prosyankin, A. (Pos. Bykovo, Moscow oblast)

TITLE: An Attachment for a Single-channel TV Set (Pristavka k odnoprogrammnomu televizoru)

PERIODICAL: Radio, 1957, Nr 4, pp 42-43 (USSR)

ABSTRACT: With minimum changes in a single-channel TV set, the attachment permits reception of three TV channels and also reception of VHF FM stations in the 65-72 mc band. The attachment is applicable to any superheterodyne amateur TV set and also to factory-built "Avangard," Temp-1," and other sets. The attachment increases sensitivity of a TV set so that the second program of the Moscow TV Center (the third TV channel) can be received in the range of 40-60 km. The 3-tube attachment is simple to build and can be aligned on the TV test pattern without measuring instruments. Two stages of rf amplification use one 6Zh1P and one 6Zh3P. The 6N15P double triode is used for heterodyne and mixer. A circuit diagram, parts data, instructions for winding coils and for alignment are supplied.

There are three figures in the article.

Card 1/1

PRUSYHA CINAF

11. Adapters to Increase Number of TV Channels

"Adapters to Single-Program Television Receivers," by Λ . Prosyankin, Radio, No 4, Apr 57, pp 42-43

This adapter permits the reception of three TV channel programs and the USW-FM radio program (65-72 Mc) on such single-program TV receivers as "Avangard" and "Temp-I." The adapter has a two-stage radio-frequency amplification, local oscillator, and mixer. Input to the adapter is in the form of a autotrans ormer. The first RF amplification stage is assembled on a 67hlP tube, and the second on 67h3P tube. The converter is assembled on a 6N15P twin-triode tube. The frequency of the local oscillator can be varied from 65 to 115 Mc.

The adopter improves the sensitivity of the set to such an extent that the radius of receptioning increased to 60 km.

A correctly assembled adapter can be used with the TV receiver without any further adjustment. (U)

540,1429

"Problems of Argun-Arc Welding of Light Alloys."

paper presented at All-Union Scientific-Technical Conference on Welding in Shielding Gases, Loningrad, Dec 1957.

(Svarachnoye Proizvodstvo, 1935, No. 5, pp 56-57 - author Typlibor, M. 5.)

SOV/137-59-1-638

Translation from: Referativnyy zhurnal. Metallurgiya, 1959, Nr 1, p 86 (USSR)

AUTHORS: Petrov, G. L., Prosyankin, I. P.

TITLE: A Novel Technique for the Evaluation of the Effects of Welding on the Sus

Materials and Certain Basic Parameters of Welding on the Suscepti-

bility of Welds to Hot Cracking (Novaya metodika opredeleniya vliyaniya svarochnykh materialov i nekotorykh osnovnykh parametrov tekhnologii svarki na sklonnost' metalla svarnykh shvov k obrazova-

niyu goryachikh treshchin)

PERIODICAL: Tr. Leningr. politekhn. in-ta, 1957, Nr 189, pp 93-110

ABSTRACT: The method developed makes it possible to establish a relationship

between such factors as the employment of various welding materials, the size of the root opening, the included groove angle, the welding current, and other technological parameters and the tendency of welds toward hot cracking (HC). In order to determine the range of temperatures corresponding to permissible deformations of the weld metal, preliminary investigations were carried out on specimens which had been welded with a Kh20N10G6 welding wire in conjunction

Card 1/3 with an alkaline flux; the properties of the weld metal were studied

SOV/137-59-1-638

A Novel Technique for the Evaluation of the Effects of Welding Materials (cont.)

at elevated temperatures maintained in an oven. The heating of specimens was conducted in a stepwise fashion, the exposure to the testing temperature constituting 30-40 minutes. The rate of deformation of the specimens amounted to $40~\mathrm{mm}/$ min. Regions of brittle failure of metal were observed at temperatures above 1360°C. The following procedure was employed in evaluating the HC tendencies of welds: Two halves of a specimen, 20x45 mm in cross section, were mounted in a rigid frame with an initial fixed gap <u>a</u> between them. The gap was then reduced by a given distance Da by means of heating of the sections with an annular multiflame burner; the two sections of the specimen were then arc-welded, the amount of filler metal being rigidly controlled; the heated portion of the specimen was cooled in water, thereby inducing a tensile deformation in the specimen. The absolute magnitude of the maximum deformation possible in a weld without formation of hot cracks in the latter was taken as the criterion in evaluating the tests results. It was established that the HC tendencies of the weld metal become more pronounced as the root opening gap a is increased and the included groove angle is reduced. Compared with TsT-7 electrodes, which produce welds of a composition equivalent to that of Kh20N10G6 steel, KTI-5 electrodes exhibit the least tendency toward HC. Even more susceptible to HC than TsT-7 electrodes are electrodes of the Kh22N15 type. In the case of automatic welding, maximum stability is found in welds Card 2/3

SOV/137-59-1-638

A Novel Technique for the Evaluation of the Effects of Welding Materials (cont.)

performed with welding wire of the EI613 grade in conjunction with AN-14 flux. Less stable are welds performed with the same grade of welding wire but with flux of the 11/5 type. Welding wire of the Sv-Kh20N10G6 grade yielded poore: results when used with either flux. Bibliography: 12 references.

Card 3/3

SOV/135-59-1-3/18

AUTHORS:

Russo, V.L., and Prosyankin, I.r., Engineers

TITLE:

Properties of the Heat-Affected Zone in Welding "V-95" Alloys (Svoystva zony termicheskogo vliya-

niya pri svarke splava V-95)

PERIODICAL:

Svarochnoye proizvodstvo, 1959, Nr 1, pp 9-12

(USSR)

ABSTRACT:

Three different methods of argon arc welding "V-95" alloys with tungsten electrodes were used to calculate heat distribution and cooling rate in different spots of the heat-affected zone, for the purpose of determining changes in metal properties according to welding technology. Structural changes occured mostly near the fusion line tural changes occured is 600 to 650°C, and less where the temperature is 600 to 650°C. Metal properties in zones of 400 to 580°C. Metal properties

Card 1/2

SOV/135-59-1-3/18

Properties of the Heat-Affected Zone in Welding "Y-95" Alloys

in zones heated to 580° improve with a higher cooling rate. It is recommended to use heat sources and technology which reduce the heat-affected zone in the 600 - 650°C temperature range and to step-up the cooling process. There are 3 tables, 4 graphs, and 2 sets of microphotos.

Card 2/2

S/137/61/000/002/017/046 A006/A001

Translation from: Referativnyy zhurnal, Metallurgiya, 1961, No. 2, p. 13 # 2E106

AUTHORS: Russo, V. L., Prosyankin, I. P.

TITLE: Welding of Aluminum-Magnesium Alloy Structures in Inert Gas Medium

PERIODICAL: "Tr. Nauchno-tekhn. o-va sudostroit. prom-sti", 1959, No. 33,

pp. 21-28

TEXT: The authors analyze technological problems of manual, automatic and demi-automatic welding with consumable electrode in He and argon atmosphere. The dependence is shown of the mechanical properties of butt welds of AMF6T (AMG6T) type alloys on the quality of preparing the edges. Conditions are described for the semi-automatic welding with 2 mm diameter consumable electrode of butt and Tee joints on AMG6T alloy.

Yu. S.

Translator's note: This is the full translation of the original Russian abstract,

Card 1/1

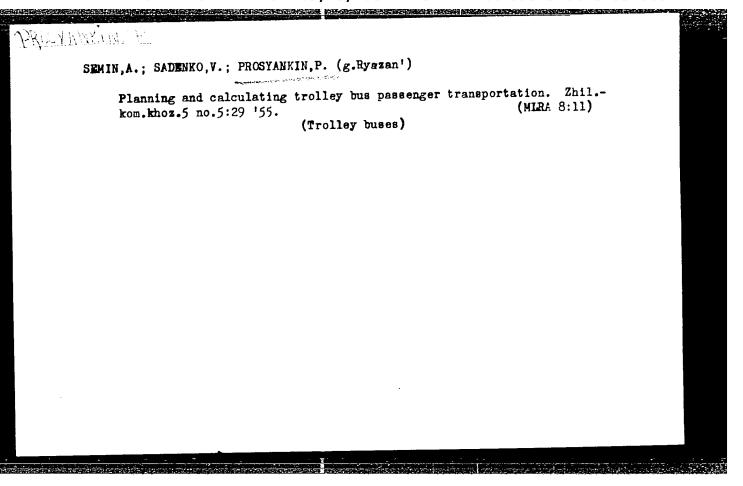
PROSYANKIN, I.P.

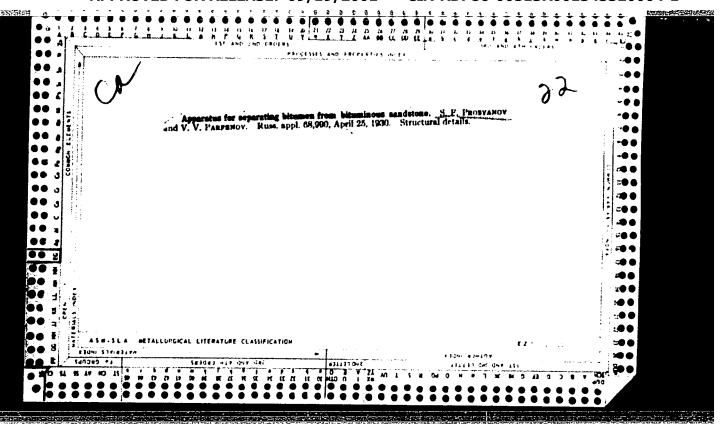
PHASE I BOOK EXPLOITATION

80V/5100

- Kablov, Ivan Aleksandrovich, Dmitriy Mikhaylovich Levykin, Grigoriy Semenovich Pilyavskiy, and Ivan Pavlovich Prosyankin
- Korpusnyye konstruktsii iz alyuminiyevykh splavov (Aluminum-Alloy [Ship] Hull Structures) Leningrad, Sudpromgiz, 1960. 151 p. 2,800 copies printed.
- Scientific Ed.: P. A. Alsuf'yev; Ed.: A. I. Kuskova; Tech. Ed.: R. K. Tsal.
- PURPOSE: This book is intended for technical personnel in the shipbuilding industry and other branches of industry engaged in the construction of aluminum-alloy structures.
- COVERAGE: Experience gained in the construction of aluminum-alloy hull structures is discussed. Attention is given to the following: equipment and accessories used in the construction process, methods of preparing and processing aluminum alloys, types of joints for structures made of steel and aluminum alloys, the assembly, welding, and riveting of the structures, methods of protecting the structures against corrosion, and quality control.

Card 1/6





GLINKOV, M.A.; PROSYANOV, Yu.F.

Effect of the properties of liquid fuel on the luminosity of open-hearth furnace flames. Izv. vys. ucheb. zav.; chern. met. 5 no.5:170-180 '62. (MIRA 15:6)

Moskovskiy institut stali i Izhorskiy zavod.
 (Liquid fuels)
 (Open-hearth furnaces—Combustion)

GLINKOV, M.A., prof., doktor tekhn.nauk; PROSYANOV, Yu.F., inzh.

Effect of liquid fuel properties and the design of atomizers on heat processes in open-hearth furnaces. Stal' 22 no.7:653-658 (MIRA 15:7)

 Moskovskiy institut stali i Izhorskiy zavod. (Open-hearth furnaces--Design and construction)

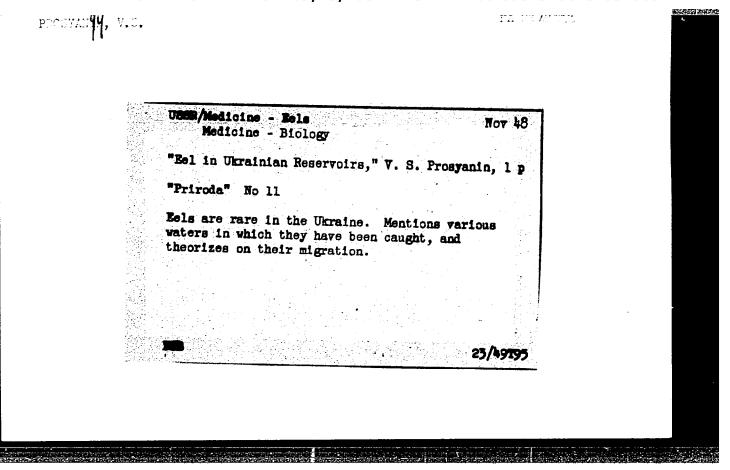
MAGIDSON, M.A., inzhener: PROSYANOV, Yu.F.

Elimination of bangings in reversing the valves of open-hearth furnaces at the Serov Metallurgical Plant. Stal.proizv.no.1: 94-101 156. (MLRA 9:9)

1.Metallurgicheskiy zavod imeni Serova. (Serov--Metallurgical plants) (Open-hearth furnaces)

Prosyanyy, V. S. "The pond fish industry if the western oblests of the Ukrainian SSR," Trudy Nauch.-issled. in-ta prudovogo i ezerno-rechnopo ryb. kncz-va, No. 5, 1949, p. 87-10h -- Bibliog: -- 55 items

So: U-3566, 15 March 53, (Letopis 'Thurnal 'nykh Statey, No. 13, 1949)



PROSYANTY, V. S.

Prosyanyy, V. S. "On the problem of the technology of industrialized fishing on the Reservoir imeni Lenin", Trudy Nauch.-icsled. in-ta prodovogo i oz rno-rech. ryb. khoz.-va, Reservoir imeni Lenin", Trudy Nauch.-icsled. in-ta prodovogo i oz rno-rech. ryb. khoz.-va, Ro. 6, 19h9, p. 103-09, - Bibliom: 7 items.

No. 6, 19h9, p. 103-09, - Bibliom: 12hurnal 'nykh Statey, No 21, 19h9)

SO: U-h392, 19 August 53 (Letopis 'Zhurnal 'nykh Statey, No 21, 19h9)

PROSYANYY, V.S.

والمراوية والمراوي المطالب والمساولة والمواجد والمواجد والمواجد

 Ukrainskiy nauchno-issledovatel'skiy institut prudovogo i ozerno-rechnogo rybnogo khozyaystva.
 (Ukraine--Fish culture) (Fish culture--Ukraine)

PROSYANYY, Vladimir Stepanovich [Prosianyi, V.S.]; CRINEVICH, Sergey

Ivanovich [Hrynevych, S.I.]; SHPET, Georgiy Iosifovich
[Shpet, H.I.]; KONONOV, Vyacheslav Aleksandrovich;
ONOPRIYENKO, M.M.[Onopriienko, M.M.], red.

[Fishpond culture] Stavove rybnytstvo. Kyiv, Vyd-vo Ukrains'koi akademii sil'skohospodars'kykh nauk, 1960. 102 p.
(MIRA 15:5)

(Ukraine--Fishponds)

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PROSTANTY, V.S. (The rampi, V.S.); Bantley, T. [Panylov, S.I.]

Stillzation of municipal sowage waters in fish culture. Enar. pros.
(A.MA 18:9)
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PROSYAHYY, V.S.

Systems of rearing young-of-the-year carp and their epizootologic evaluation. Trudy sov. Ikht.kom. no.9:60-64 159.

(MIRA 13:5)

1. Nauchno-issledovatel okiy institut prudovogo 1 ozerno-rechnogo rybnogo khozyaystva USSR. (Carp--Diseases and pests) (Fish culture)

PROSZT, Ervin

Problems of dimensional changes in hot-rolled light-section profiles. Koh lap 96 no.8:342-345 Ag *63.

PROSZT, Ervin

Problems of dimensional changes in hot-rolled light-section profiles. Koh lap 96 no.7:289-293 J1 *63.

PROSZT, G

Selection of molds with high glucose oxidase activity and determination of their optium growing conditions. Elelm iper 17 no.11:339-342 N°63.

1. Kozponti Elelmiszeripari Kutato Intezet, Budapest.

PROSZT, G.; VASS, K.

"Calculation of Time Necessary for the Heat Treatment of Preserved Foods", P. 230, (ELELMEZESI IPAR, Vol. 8, No. 8, Aug. 1954, Budapest, Hungary)

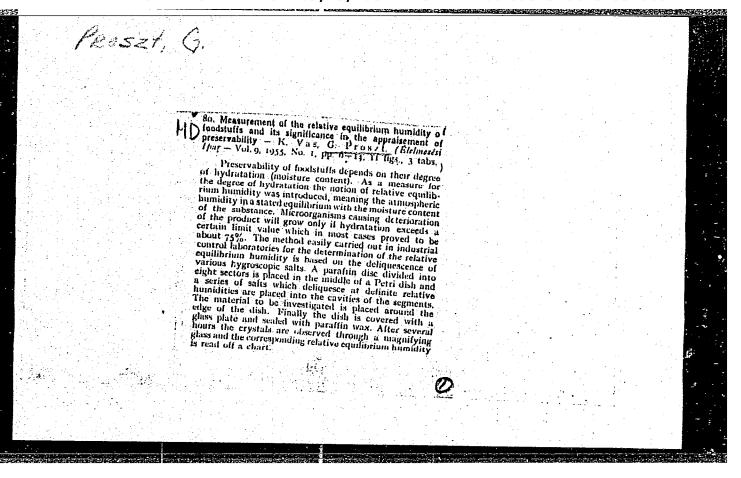
SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 3, No. 12, Dec. 1954, Uncl.

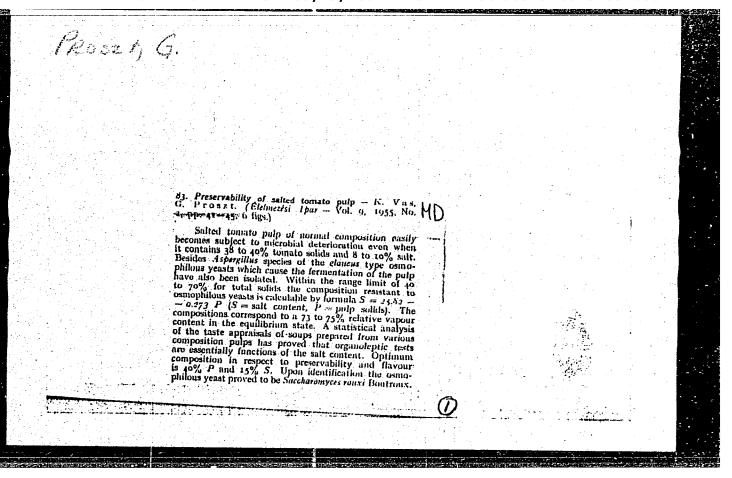
VAS, K.; PROSZT, G.

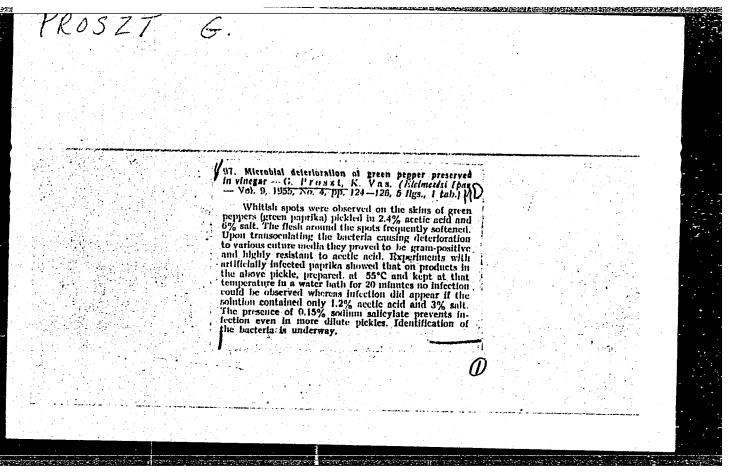
agents.

Heat destruction of bacterial spores in the presence of chemical agents. Acta microb.hung. 2 no.3:235-248.1955.

1. Institute for Research in Canning, Meat Packing and Refrigeration. (ANTISEPSIS AND ASEPSIS. heat destruction of bact. spores in presence of chem.







CIA-RDP86-00513R001343320004-1 "APPROVED FOR RELEASE: 09/19/2001

COUNTRY

- Hungary

CATEGORY

Microbiology

ABS. JOUR. Ref Zhur-Biologiya, No.4, 1959, No. 14837

AUTHOR

. Vas, K.; Proszt, G.

INST.

Hungarian AS

TITLE

Significance of pH in Sterilization of

Canned Goods

ORIG. PUB. : Acta microbiol. Acad. soi. hung., 1957, 4,

No.4, 413-432

ABSTRACT

A lowering of the pH within ranges of 7.0 to 3.0 favors a shortening of the heating period required to kill the spores of Bacillus cereus. The heating time depends not only on the pH but on the acid which is used to acidify the substrate. It is shorter with lactic acid and somewhat longer with phosphoric and citric. The decrease in spore resistance is not high enough to have any sig-

inificance on the reduced heating period of

CARD:

1/2

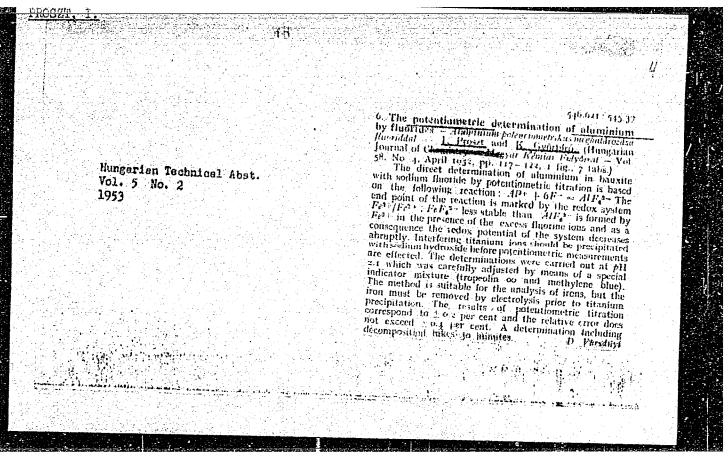
COUNTRY - CATEGORY ABS. JOUR. AUTHOR Mo. 14837 INST. TITIE RIG. PUB. : canned goods in industry. But the lowering of the pH of the canned products is very important, since the lower pH stops the growth producing with a pH of 4.0 if the acidification is done with hydrochloric phosphoric ABSTRACT tion is done with hydrochloric, phosphoric, tartaric, citric, or lactic acids. With the use of acetic acid, which has a specific effect, spores are not found even at a pH of : 4.5. -- M.E. Kupletskaya CARD: 2/2

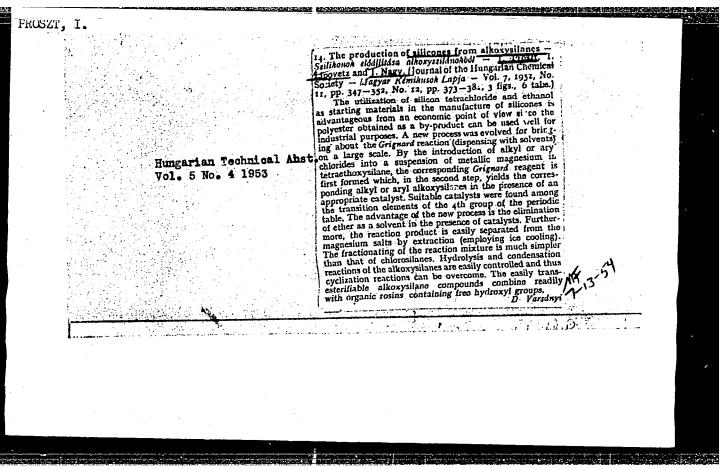
VAS, K.; PROSZT, G.

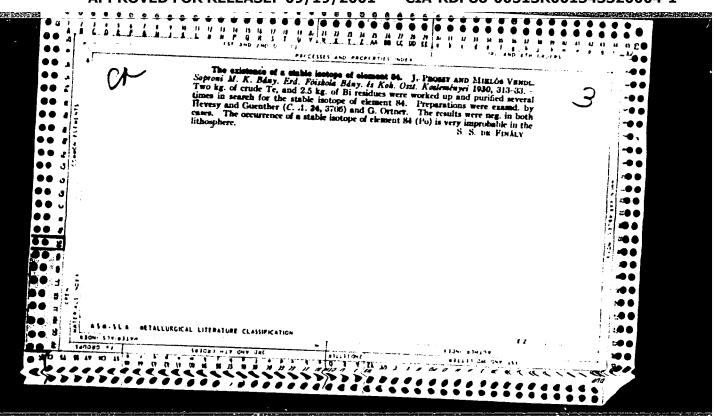
The effect of removal of available water on cell form and kinetics of growth of a strain of Sacch. cerevisiae var. ellipsoides. Acta microb.hung. 6 no.4:283-296 59.

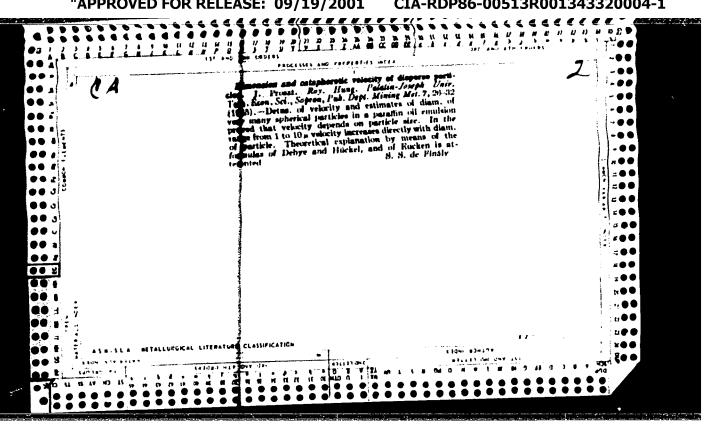
1. Institute for Research in Canning and Refrigeration, Budapest.

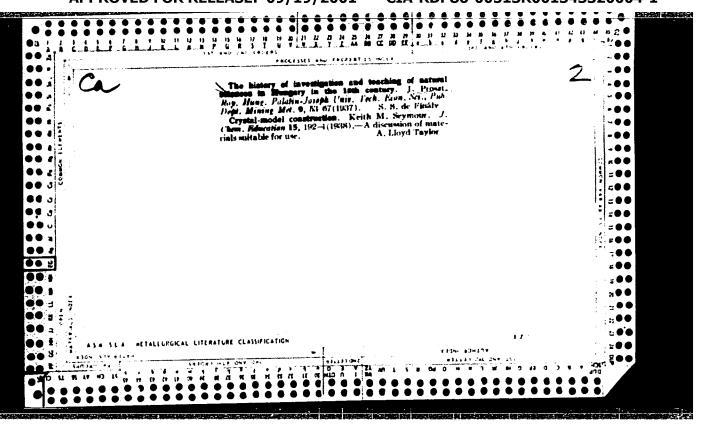
(YEASTS)

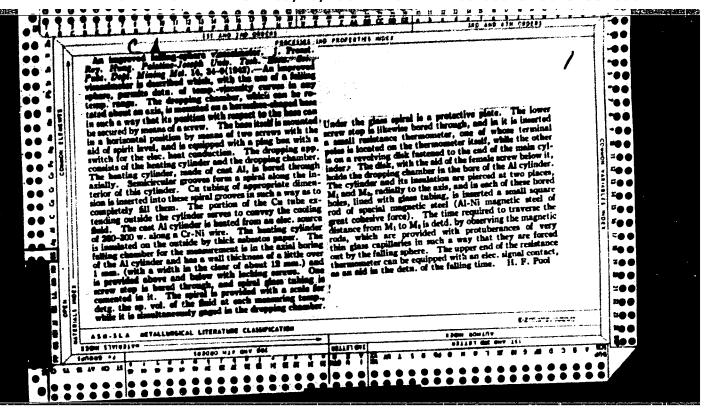








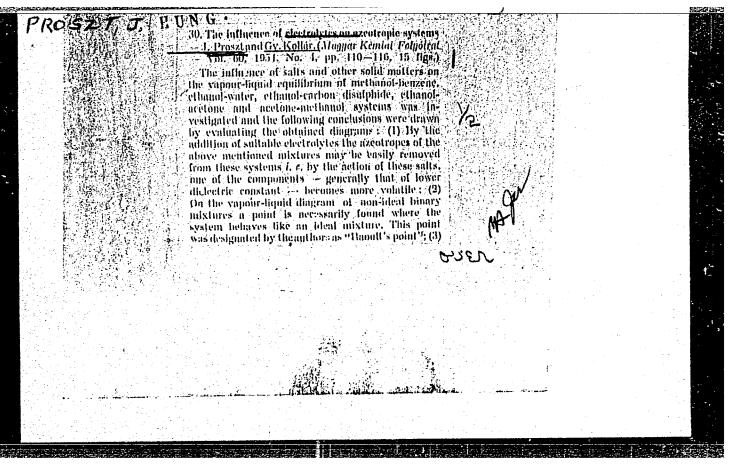


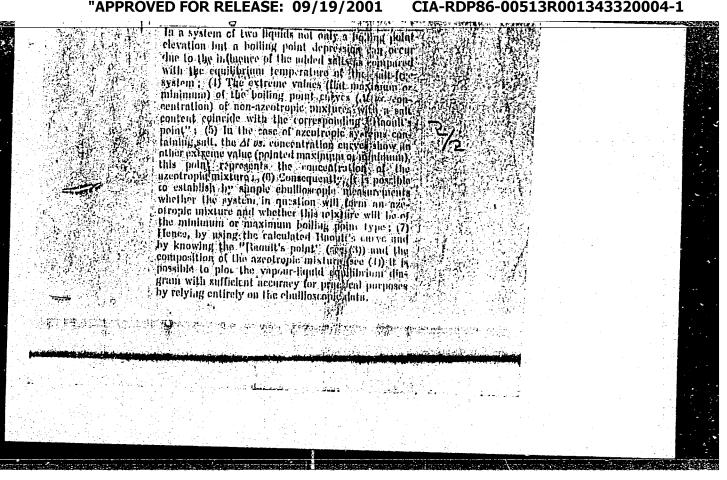


HALMOS, K., dr.; LIPOVETZ, I.; PHOSZT, J., dr.

Tests for preparing stem condenser surfaces hydrophobized with silicon and investigation of their heat transfer conditions. Acta techn Hung 11 no.1/2:143-150 162.

1. Lehrstuhl für anorganische Chemie der technischen Universität, Budapest. 2. Korresp. Mitgl.d. Ungar. Akademie der Wissenschaften (for Proszt).





PROSZT, Janos

Bela Lengyel, 1844-1913. Magy kem folyoir 69 no.3:97 Mr '63.

1. "Magyar Kemiai Folyoirat" szerkeszto bizottsagi tagja.

Hungarian
Technical
Abst.

O. The potentiometric determination of aluminium by fluorides—Aluminium potentiometrikus meghaldradsa fluoridada—I Prosett and K. Gyóthiro (Hungarian Journal of Chemistry—Magyar Rémais Polybria—I Vol. 58, No. 4, April 1952, pp. 117—122, 1 fig., 7 tabs.)

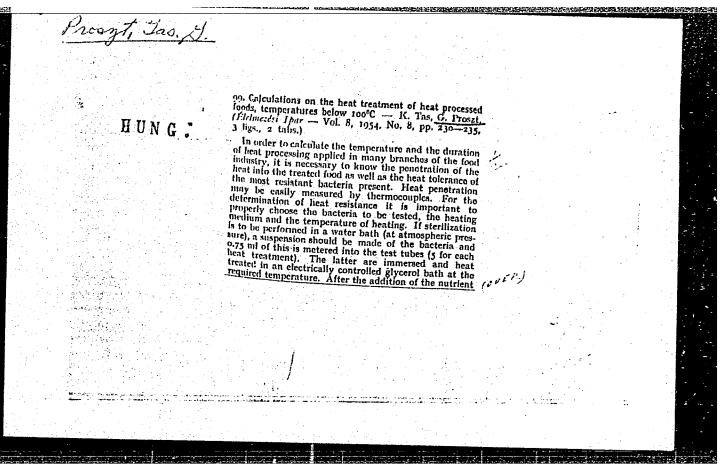
The direct determination of aluminium in bauxite with sodium fluoride by potentiometric titration is based on the following reaction: AP+ AF-—AIP-3—The end point of the reaction is marked by the redox system Fe*+[Fe*+Fe*]-Pe*]- loss stable than AIP-3—is formed by Fe*—in the presence of the excess fluorine ions and as a consequence the redox potential of the system decreases abruptly. Interfering titratum ions should be procipilated with sodium hydroxide before potentiometric measurements are effected. The determinations were carried out at pH 2.1 which was carefully adjusted by means of a special indicator mixture (tropeoim oo and methylene blue). The method is suitable for the analysis of irons, but the iron must be removed by electrolysis prior to titration correspond to p. 0.2 per cent and the relative error does not exceed ± 0.4 per cent. A determination including decomposition takes 30 minutes.

PROSZT. J.

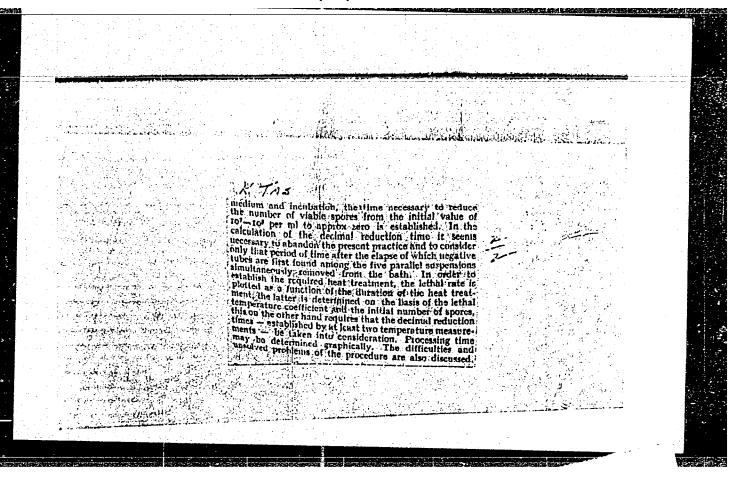
kinetic potential — Ujabb adatoh uz elektrokinetikus polen eidl egyértelműrégnek kérdéséhez — J. Proszt and T. Famokos. (Hungarian Journal of Chemistry Magyar Kénnal Folyóirat — Vol. 59, 1953, No. 6, pp. 105-171, 3 figs. 7 tabs.)

The possible causes of errors of endosmometric potential determinations are investigated. Errors due to the solubility of laboratory glassware are eliminated by lining the walls of all glass apparatuses with an insoluble, hydrophobic sili me coating. It is shown that precious metal electrodes may be used instead of unpolarizable electrodes which may be the source of impurities; the action of atmo pheric carbon dioxide is decreased by integrating the endosmometer with the conductivity cell.'s potentials of pure quartz powder suspended in redistilled water are determined by the above method and compared with potentials obtained by the cataphoretic method. These values agree thus proving the existence of a well-defined, unequivocal electrokinetic potential. It is oncomore proved that & is not only a function of the chemical composition but of the particle size as well. J. P.

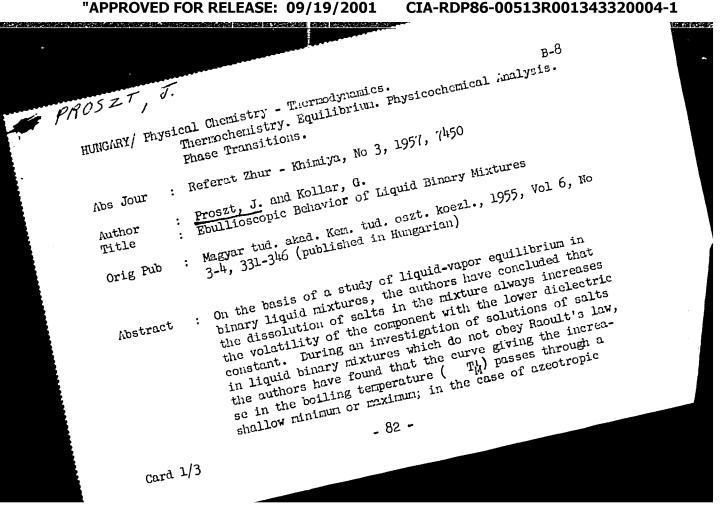
A 1/2/54



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B-8

HUNGARY/ Physical Chemistry - Thermodynamics. Thermochemistry. Equilibrium. Physicochemical Analysis.

Phase Transitions.

Abs Jour

: Referat Zhur - Knimiya, No 3, 1957, 7450

mixtures there is in addition a sharp minimum or maximum. The authors connect this type of curve with the existence in the liquid-vapor equilibrium diagram of an nonideal binary mixture of a point at which the attractive forces between like and unlike molecules are equal and the mixture therefore becomes ideal according to Raoult's law (Raoult point). At this point there is a lowering of the boiling temperature. On the basis of the above relation it is shown that the azeotropic and Raoult's points can be determined from ebulliometric measurements. In order to simplify the task and to exclude the effect of the salts, additional work was done in which the behavior of dilute solutions of nonpolar substances was studied: . $T_{\rm n}$ curves have been prepared for solutions with concentrations n = 1/(100-1) (100 moles solvent, one mole solid

card 2/3

- 83 -

HUNGARY/ Physical Chemistry - Thermodynamics.

Thermochemistry. Equilibrium. Physicochemical Analysis. Phase Transitions.

Abs Jour

: Referat Zhur - Khimlya, No 3, 1957, 7450

soluble substance). It was established that the ebulliometric curves obtained by this method agree exactly with the liquid-vapor equilibrium curves. The above method is applied to the determination of the ebulliometric curves of some real (not agreeing with Raoult's law) mixtures, starting with liquid-vapor equilibrium data (and vice versa).

See also RZhKhin, 1956, 12356.

Card 3/3

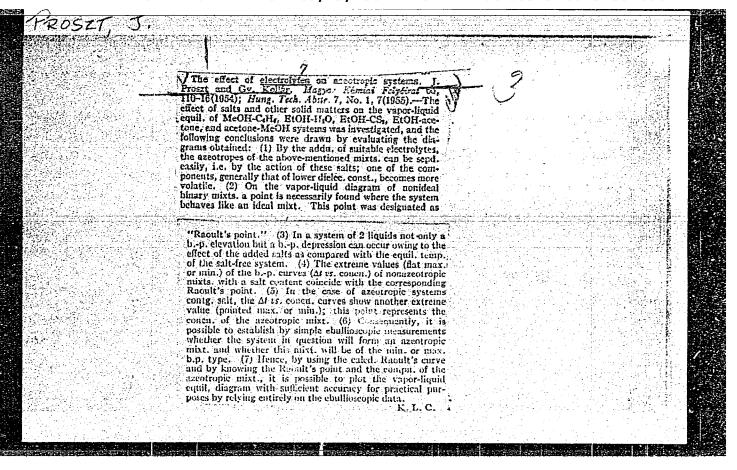
- 84 -

LOHONYAI, Nandor; PROSZT, Janos

Examination of the thermogalvanic batteries consisting of the hydrochloric acid quinhydrone electrodes. Magy kem folyoir 66 no.10:423-427 0 '60.

 Budapesti Muszaki Egyetem Szervetlen Kemiai Tarszeke.
 "Magyar Kemiai Folyoirat" szerkeszto bizottsagi tagja (for Proszt).

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001343320004-1"



B-8

PACSZI - HUNGARY/Thermodynamics. Thermochemistry. Equilibria. Physico-

Chemical Analysis. Phase Transitions.

Abs Jour : Ref Zhur - Khimiya, No 8, 1957, 26182

Author : J. Prosxt, Gy. Kollar

Inst : Academy of Sciences of Hungary

Title : Ebullioscopic Study of Binary Liquid Mixtures

Orig Pub : Acta chim. Acad. sci. hung., 1955, 8, No 1-3, 171-189

Abstract : While studying the equilibrium liquid - vapor (LV) in binary

systems (BS) (see also RZhKhim, 1957, 7450), the authors discovered that the component of a lesser dielectric constant became more volatile under the action of dissolved salts. It was detected during the study of causes of this salt effect that there was a flat minimum (or maximum) on the curves of the boiling temperature rise in 1 M solutions of slats in BS which are not ideal according to Raoult. Besides, in case of azeotropic systems, these curves pass also through a sharp maximum (or minimum) at the point cor-

responding to the composition of the azeotrope. This

Card : 1/3

CIA-RDP86-00513R001343320004-1"

APPROVED FOR RELEASE: 09/19/2001

HUNGARY/Thermodynamics. Thermochemistry. Equilibria. Physico-Chemical Analysis. Phase Transitions.

Abs Jour : Ref Zhur - Khimiya, No 8, 1957, 26182

phenomenon was explained by the presence of a special point on the equilibrium curve of LV of non-ideal BS, at which point the system behaved ideally following Raoult's law. The authors named this point "Raoult's point". The most selective solvatation of ions takes place at Raoult's point in consequence of the equalization of attraction potentials between similar and dissimilar molecules of the liquid. Such a slat effect can exceed even the "classical" ebullioscopic effect causing a drop of the boiling temperature. Ebullioscopic measurements in salt containing systems allow to establish the presence or absence of an azeotrope as well as to determine the position of the azeotropic and Raoult s points. Passing to the study of diluted solutions, the authors used completely nonpolar substances as additions in order to exclude the slat effect completely. The magnitudes of the boiling temperature rise referred to solutions containing 1 mol of solid substance in 100 mols of mixed solvent.

Card : 2/3

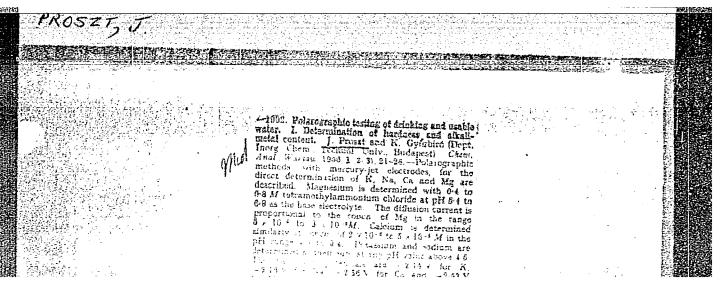
HUNGARY/Thermodynamics. Thermochemistry. Equilibria. Physico-Chemical Analysis. Phase Transitions.

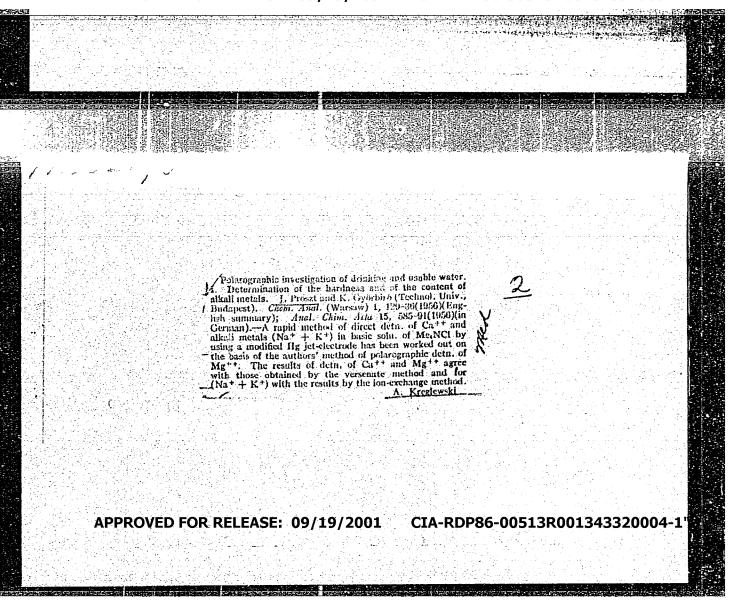
Abs Jour : Ref Zhur - Khimiya, No 8, 1957, 26182

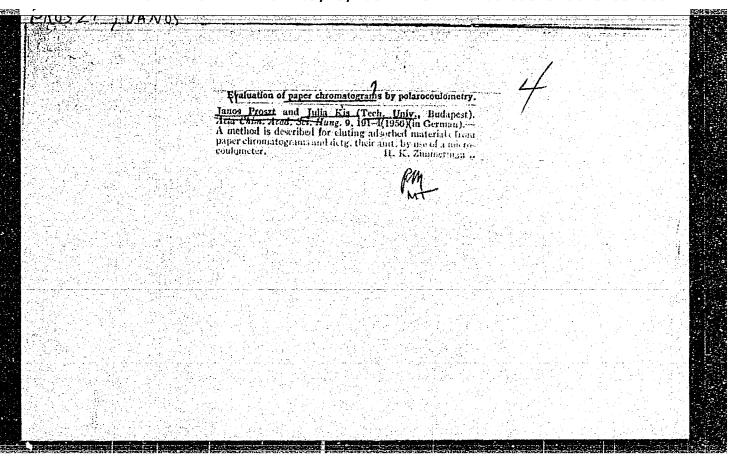
The possibility of the computation of real ebullioscopic curves on the basis of experimental data of LV equilibrium is demonstrated on concrete example. The computations are reversible: the ebullioscopic data permit to compute the course of the LV equilibrium curve. An increased precision of the computation is foreseen by the introduction of corresponding adjustments.

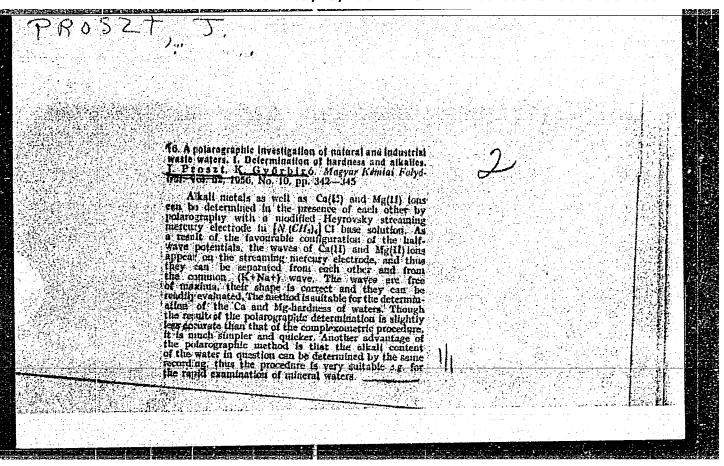
Card : 3/3

Domestic production and practical use of sillcons, p. 98 (Electrotechnika, Budapest, Vol. 48, no. 3, Mar. 1955) SO: Monthly list of East European Accessions (EEAL), IC Vol 4, no. 6, June 1955 Uncl	PROSZT, J.	
	Domestic production and practical use of sillcons, p. 98 (Electrotechnika, Budapest, Vol. 48, no. 3, Mar. 1955)	
	SO: Monthly list of East European Accessions (EEAL), IC Vol 4, no. 6, June 1955 Uncl	









PROSET, J.

Introduction. In German. p. 1. (Acta Chimica, Vol. 9, No. 1/4, 1956, Budapest, Hungary)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, No. 8, Aug 1957. Uncl.

PROSZT F

HUNGARY/Physical Chemistry - Electrochemistry.

B-12

Abs Jour

: Ref Zhur - Khimiya, No 7, 1958, 20788

Author

: K. Györbiro, L. Poos, J. Proszt.

Inst

: Academy of Sciences of Hungary.

Title

: Polarography of Magnesium.

Orig Pub

: Acta chim. Acad. sci. hung., 1956, 9, No 1-4, 27-36.

Abstract

: It was found at the study of oscillographic curves (v, t) obtained on a Hg drop electrode for the solution of Mg² r in 0.7 M (CH₃)_LNCl that Mg² + produced a reversible stage at -2.55 v. But the polarographs of the same substance taken on an improved (RZhKhim, 1956, 61824) flowing electrode (FE) have the shape of ordinary waves without maxima (M). The height of these wave is proportional to the Mg² concentration at c from 5 · 10⁻⁴ to 3 · 10⁻³ M; if c was greater than 3 · 10⁻³ M, a M appears on the waves, the

Card 1/2

HUNGARY/Physical Chemistry - Electrochemistry.

B-12

Abs Jour : Ref Zhur ~ Khimiya, No 7, 1958, 20788

magnitude of the M decreases with the decrease of the FE length. The FE wave is observed at pH of 5 to 9.5: $E_2^{\frac{1}{2}}$ does not depend on pH (-2.59 v according to the standard c. e.). In the authors' opinion, the M on the Mg² waves is caused by the increase of Mg²⁺ concentration at the electrode surface due to the hydrolysis of Mg amalgam forming at the electrolysis.

Card 2/2

CIA-RDP86-00513R001343320004-1 "APPROVED FOR RELEASE: 09/19/2001

Б.

. HUNGARY/Physical Chemistry - Electrochemistry. : Ref Zhur - Kririya, No 9, 1958, 28074

: Paulik, J. and Proszt, J. Abs Jour

huthor

. Hungarian Academy of Sciences.

: A New Method for the Recording of Derivatives of Inst

Title

: Acta Chim Acad Sci Hung, 9, No 1-4, 161-169 (1956) (in German with a summary in English)

Orig Pub

: A new method has been developed for the recording of derivatives of polarograms (DF): the current passing Abstract

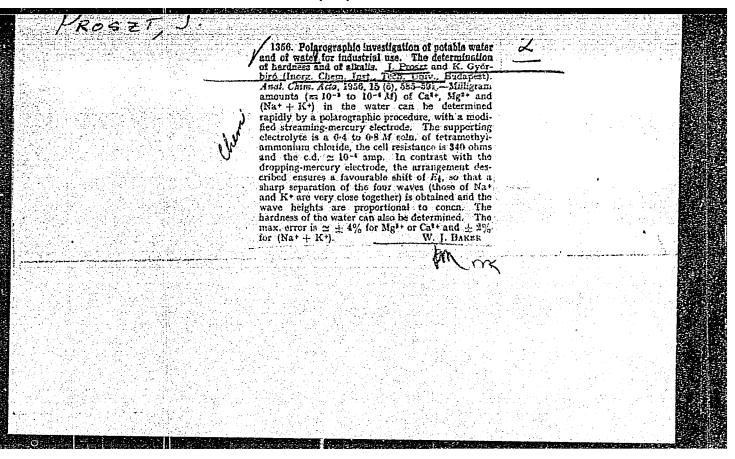
through the polerographic cell as the arrived voltage is varied uniformly is passed through the primary winding of a transformer, inducing a current proportional to the time (or voltage) derivative of the current in

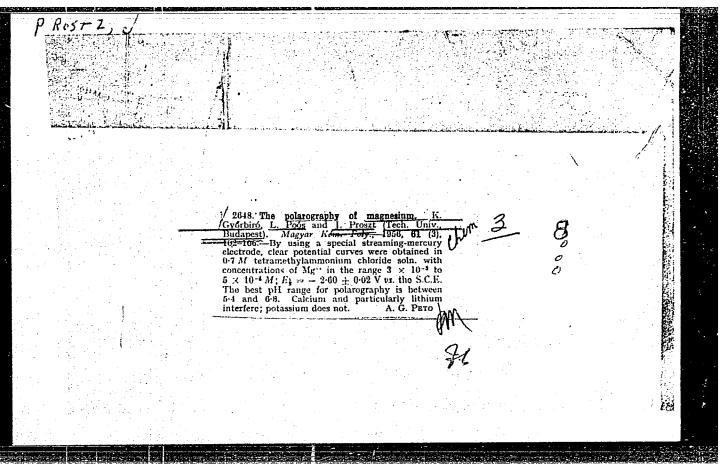
the primary circuit. The secondary of the transfermer

Card 1/2

23

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001343320004-1 HUNGARY/Physical Chemistry - Electrochemistry. : Ref Zhur - Khimiya, No 9, 1958, 28074 B. is connected to a recording Calvanometer. It is noted that the above-putlined procedure yields strictly symmetrical DP's. The height of the DP is quite adequately reproducible and proportional to the concentration of the depolarizer. The potential of the peak in the DP coincides exactly with the El/2 (TN: half-wave potential of the usual waves. Card 2/2





PROSIT, JANOS

Hungary/Analytical Chemistry - Analysis of Inorganic Substances, G-2

Abst Journal: Referat Zhur - Khimiya, No 19, 1956, 61624

Author: Gyorbiro, Karoly; Poos, Laszlo; Proszt, Janos

Institution: None

Title: Polarography of Magnesium

Original

Periodical: A magnezium polarografiaja, Magyar kem. folyoirat, 1956, 62, No 3,

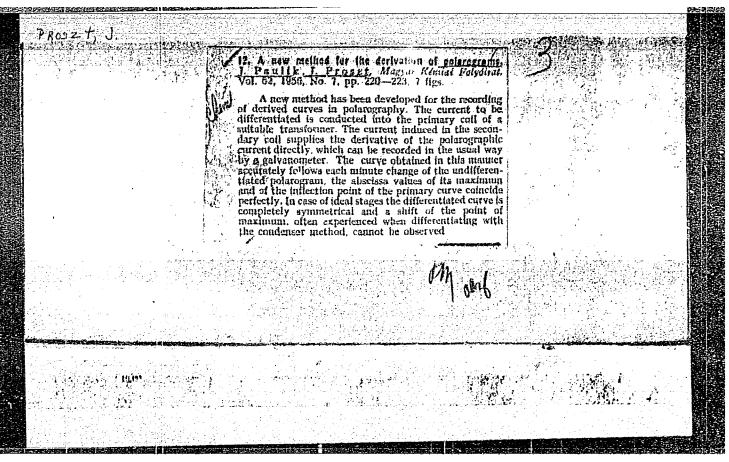
102-106; Hungarian; German resumé

Abstract: Mg is reduced at a flowing Hg-cathode and gives a clearly defined

wave with $E_{1/2} = -2.6$ v. A polarographic method has been worked out for determining $5 \cdot 10^{-4} - 3 \cdot 10^{-3}$ M solutions of Mg in the presence of K with a background of 0.7 M N(CH₃)4Cl at pH 5.4-6.8.

Li+ and Ca2+ interfere.

Card 1/1



PROSZT, J.; POOS, L.

Polarocoulometry; a new method for determining concentrations. In German.

P. 25. (PERIODICA POLYTECHNICA. CHEMICAL ENGINEERING) (Budapest, Hungary) Vol. 1, no. 1, 1957

SO: Monthly Index of East European Accession (EEAI) LC Vol. 7, No. 5, 1958

PROSZT, J. : GYORBIRO, K.

Polargraphic analysis of drinking water and water suitable for industrial use; determination of hardness and alkali content.

P. 198 (Chemicke Zvesti) Vol. 11, No. 4, Apr. 1957, Czechoslovakia

SO: MONTHLY INDEX OF EAST EUROPEAN ACCESSIONS (EEAI) LC. - VOL. 7, NO. 1, JAN. 1958

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001343320004-1"

HUNGARY / Analytical Chemistry. General Problems.

Abs Jour: Ref Zhur-Khim, No 12, 1959, 42035.

Author : Proszt, J. Hungarian AS.

: Studies in the Field of Polarography. Inst Title

Orig Pub: Magyar tud. akad. Kem. tud. oszt. kösl., 1958, 10,

No 2, 163-174.

Abstract: The results of comprehensive research made by the author in the field of polarography are described. 1. The important role played by pH is established in the study of polarographic determination of

small quantities of Al: free acid is indispensable for the inhibition of hydrolyses, but an excessive amount brings forward the mixing of half waves of H and Al. The optimal pH is 3.3-3.4, determined

approximately by the mixed indicator dimethyl

Card 1/6

HUNGARY / Analytical Chemistry. General Problems.

F.

Abs Jour: Ref Zhur-Khim, No 12, 1959, 42035.

Abstract: yellow-methylene blue. It is determined with more precision with an Sb electrode. pH is easier to control, while using a recording polarograph, by observing the aspect of the recorded polarographic curve. HCl or MgO suspension is added to the polarographed solution, if necessary. The oxygen is to be eliminated by way of passing N2 or H2. The least determinable concentration of Al is 2.10-4 n. (2 mcg./ml. of Al); the error is ±2%. The method is applied to determine Al in steels and Al amalgams. 2. The method of polarographic determination of NH4 described previously (Ishibasi and others, Mezina-rodniho polarografickeho sjezdu, Praha, 1951, 120) has been improved. Instead of [N(CH3)4]OH, a haloid salt of tetramethylammonium is used as the

Card 2/6

E-2

Ε

HUNGARY / Analytical Chemistry. General Problems.

Abs Jour: Ref Zhur-Khim, No 12, 1959, 42035.

Abstract: background. The base for alkalization (until phenolphthalein gets a pink coloration) is sepa. rated from this salt by electrolysis with the aid of an immersed sound (Pt cathode, Ag anode). It is possible to determine 0.1 mcg N with this improved method. 3. The anomalous behavious of Mg+2 during polarography, which is the reason for not using the polarographic method in order to determine it, was studied by utilizing the method of oscillopolarography, with a flowing Hg electrode. On the basis of obtained results, the method of polarographic determination of Mg, using a flowing electrode, is developed for the first [N(CH₂)] [Cl. pH 5 4-6 8. F. (con the cathode [N(CH₃)₄]C1; pH 5.4-6.8; $E_{1/2}$ on the cathode branch = 2.55 v. (2.85 v. for the background). Of

Card 3/6

HUNGARY / Analytical Chemistry. General Problems.

E

Abs Jour: Ref Zhur-Khim, No 12, 1959, 42035.

Abstract: all alkali and alkali-earth metals only Li hinders the determination of Mg. Under the conditions described above Ca^{+2} makes $\text{E}_{1/2}$ more positive by 0.2 v. than $\text{E}_{1/2}$ of Mg⁺². The common wave Na⁺ and K⁺ is also clearly separated from the wave Ca^{+2} and Mg^{+2} . This creates the possibility of using this method for a quick analysis of water. It is noted that the flowing Hg electrode can be utilized not only in oscillopolarography, but also in classical polarography. In this case, the values of $\text{E}_{1/2}$ are displaced to a greater extent in relation to the normal potentials than with a dropping Hg electrode, and they are disposed over a wider range. The presence of an anomalous maximum on the Mg⁺² wave, when the dropping Hg electrode is

Card 4/6

E-3

HUNGARY / Analytical Chemistry. General Problems. E

Abs Jour: Ref Zhur-Khim, No 12, 1959, 42035.

Abstract: used, is produced, in the author's opinion, by too large an accumulation of Mg*2 in the diffusion of layer, as a result of the quick decomposition of the Mg. amalgam. 4. A new device is recommended the Mg. amalgam. 4. A new device is recommended studying substances with E1/2, which are situated studying substances with E1/2, which are situated close to one another. The maximums of the derivative curve coincide exactly with the corresponding tive curve coincide exactly with the corresponding tive curve coincide exactly with the responsible to the concentration. It is therefore portional to the concentration. It is therefore not the primary polarographic curve, to find the on the primary polarographic curve, to find the on the primary polarographic curve, to find the deginning of the reduction of the given ion and beginning of the reduction of the waves. 5. In hence to determine the height of the waves.

Card 5/6

HUNGARY / Analytical Chemistry. General Problems.

Ε

Abs Jour: Ref Zhur-Khim, No 12, 1959, 42035.

Abstract: polarographic current (in chromatopolarography, for instance). Accordingly, it is recommended to carry out coulometric measurements and to utilize for this end a specially constructed hydrogen microcoulombmeter working on the principle of a dilatometer: electrolyte - diluted H₂SO₄; cathode - Pt-soot on silver plated glass; anode - H₂SO₄, formed on the surface of Hg (the electrolyte and the cathode are saturated with hydrogen). 6. A new quantitative method of analysis - polarocoulombmetry, is described: the total current passing through a vessel with a dropping Hg electrode in a strictly determined time, automatically recorded, is measured with the aid of a coulombmeter. -- I. Krishtofori.

Card 6/6

E-4

В

PROSZT, J.

POLIND/Physical Chemistry. Thermodynamics. Thermochemistry.

Equilibria. Phase Transitions. Physical-Chemical

Analysis.

Abs Jour: Ref Zhur-Khim., No 5, 1959, 14531.

Author : Proszt J., Kollar G.

Inst Title

: Decrease of Boiling Temperatures of Liquid Mixtures

Containing Salt Solutions.

Orig Pub: Roczn. chem., 1958, 32, No 3, 611-621.

Abstract: The effect of dissolved salts (LiCL, LiI, MaI and

CaCl₂) upon the liquid-vapor equlibrium in certain binary mixtures: methanol - benzol, ethanol-water, acetone - methanol, acetone - chloroform has been examined. In the presence of the dissolved salt,

Card : 1/3

POLAND/Physical Chemistry. Thermodynamics. Thermochemistry. Equilibria. Phase Transitions. Physical-Chemical Analysis.

 \mathbf{B}

Lbs Jour: Ref Zhur-Khim., No 5, 1959, 14531.

the component with a smaller dielectric constant is always characterized by a higher relative volatility. It has been demonstrated that the curve showing the increase of the boiling temperature as a function of the mixture compound for IM of the salt solution (0.1 mole of salt per 100 milliliters of the liquid mixture) in all cases passes through the blunt maximum (if the more volatile component in a pure state has a larger dielectric constant) or minimum (if the more volatile component in a pure state has a smaller dielectric constant). The abscissa of this extreme coincides with the abscissa of the intersection point of the real curve of the

Card : 2/3

12

B

POLAND/Physical Chemistry. Thermodynamics. Thermochemistry. Equilibria. Phase Transitions. Physical-Chemical Analysis.

Abs Jour: Ref Zhur-Khin., No 5, 1959, 14531.

liquid-vapor equilibrium with the ideal equilibrium curve (Raul's point). The extreme point (corresponding to Raul's point) of the activity coefficient of the components obtained on the curve for the decrease of the boiling temperature is equal to a unit; the interaction of the identical and different molecules of the liquid components of the mixture is the same $(a_{11} = a_{22} = a_{12})$ and the solvation process of the salt ions proceeds with maximum selectivity. The behavior of azeotropic systems has been examined. - S. Dyk.

Card : 3/3

PROSZT, J.

Pal Kitaibel as chemist; a lecture given at the commemorative session of the Hungarian academy of Sciences on June 8, 1958. p. 123

A MAGYAR TUDOMANYOS AKADEMIA V. OSZTALYA PIOLOGIAI CSOFORTJANAK KOZLEMENYAI. Fudapest, Hungary. Vol. 2, no. 2, 1958.

Monthly List of East European Accession (EEAI), LC, Vol. 9, no. 2, Feb. 1960 Uncl.

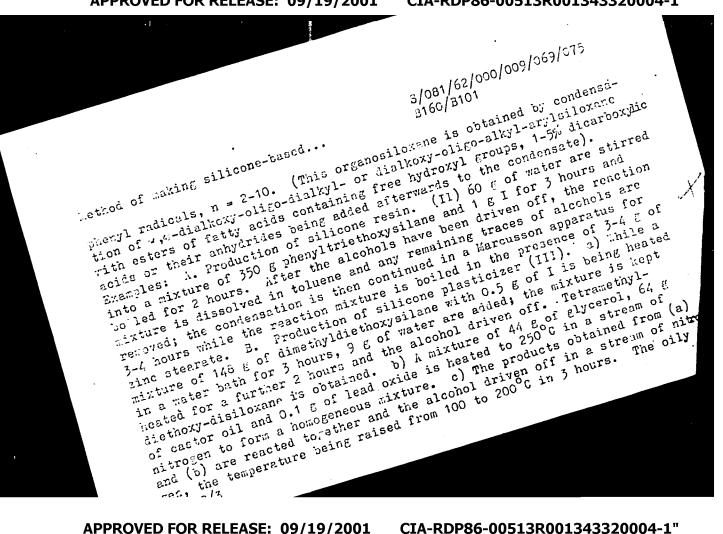
PROSZT, J.

Polarographic studies. p. 163

Magyar Tudomanyos Akademia. Kemiai Tudomanyok Osztalya. KOZLEMENYEI. Budapest, Hungary, Vol. 10, No. 2, 1958

Monthly List of East European Accessions (EEAI) LC, Vol. 8, No. 7, July 1959 UNCL

CIA-RDP86-00513R001343320004-1 "APPROVED FOR RELEASE: 09/19/2001 -3/081/62/000/009/069/075 Proswi, Janos, Kuszmann, Janosné, Lipovetz, Iván, Hafy, József inethod of making silicone-based heat-resistant and anti-corro-Referativny zhurnal. Khimiya hoilo gzigetelő és khimiya hoilo gzigetelő és hungarian patent 147716 (Eljárús szilikon alapú hására. Hungarian patent 197327 (Eljárús lakkok előállítására. 9P327 (Eljárús szilikon zlapú hőúlló szigetelő és hatont 147714, hongarian patent 147714, hongar 15.7140 The made from yolyorseno-siloxane having an Risi ratio of 1-1.5 and a defrence having an Risi ratio of 1-1.5 an FXT: Silicone resin for heat-resistant and anti-corrosion varnishes defree and anti-corrosion varnishes defree and anti-corrosion varnishes defree be made from polyofeano of lane by resin is obtained having an alkyl radical with of polycondensation of lane by resin is an alkyl radical hydrocarbon of alkyl-alkyl single polycondensation of lane by resin is obtained having the general with of polycondensation of lane by resin is obtained having tradical hydrocarbon of alkyl-aryl acid (1). The polycondensation of lane by resin is obtained having the general with of polycondensation of lane by resin is obtained having tradical hydrocarbon of alkyl-aryl acid (1). The polycondensation of alkyl-aryl for alk ^{;,04,10}53: TITLE: PERIODICAL:

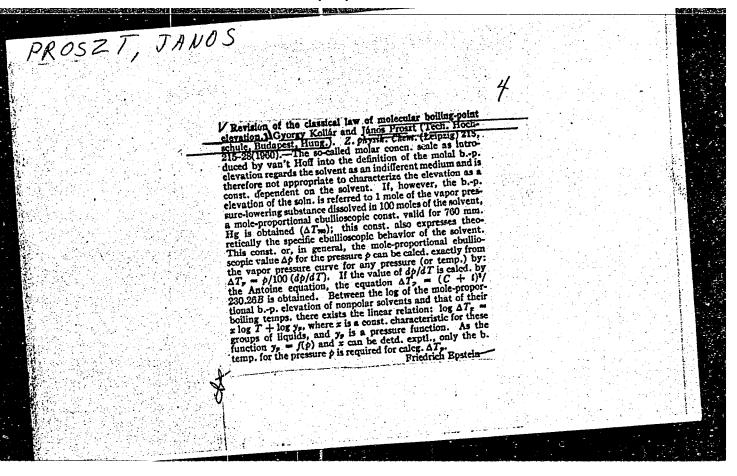


5/081/62/000/009/069/075 B160/B101

method of making silicone-based ...

reaction mixture so formed is heated to 230°C; 10.6 g of phthalic anhydride are added slowly and the temperature is raised to 240-250°C. After cooling, the product is dissolved in toluene. C. Condensation of II and III is carried out while boiling the toluene. The toluene solution of the varnish is filtered and evaporated to a resin content of 40%. 600-700 ml of a 40% solution of resin is obtained. [Abstracter's note: Complete translation.]

Card 3/3



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PROSZT, J., prof. (Budapest); HEGEDUS-WEIN, I., Frau (Budapest)

Colorimetric determination of carbon dioxide in small quantities in gas mixtures. Peridoca polytechn chem 4 no.1:1-8 *60. (EEAI 9:12)

1. Institut fur Anorganische Chemie der Technischen Universitat, Budapest.

(Carbon dioxide)
(Gases)
(Colorimetry)
```

SCHNEER, Anna, a kemiai tudomanyok kandidatusa (Budapest); PROSZT, Janos; PUNGOR, Erno, a kemiai tudomanyok doktora (Budapest); SZARVAS, Pal, a kemiai tudomanyok kandidatusa

An account of the 1959 work of the Committee of Inorganic and Analytical Chemistry, Hungarian Academy of Sciences. Kem tud kozl MTA 15 no.3:375-395 ¹61.

1. Magyar Tudomanyos Akademia Szervetlen es Analitikai Kemiai Bizottsag, Budapest (for Schneer) 2. Szerkesztobizottsagi tag, Magyar Tudomanyos Akademia Kemiai Tudomanyok Osztalyanak Kozlemenyei and lev.tag (for Proszt) 3. Eotvos Lorand Tudomanyegyetem Szervetlen Kemiai Tanszek, Budapest (for Pungor)

(Hungarian Academy of Sciences) (Hungary-Chemistry, Inorganic)

KOLLAR, Gyorgy, a kemiai tudomanyok kandidatusa (Budapest); PROSZT, Janos, akademiai lev.tag(Budapest)

Determination of Antoine constants independently from vapor tension curve. Kem tud kozl MTA 16 no.1:47-52 161.

1. Budapesti Muszaki Egyetem, Szervetlen Kemiai Tanszek.

(Vapors) (Equations) (Organic compounds)